

Annual Report 2008

Production Sector

OMB Control No. 2060-0328

Expires 07/31/2011



Company Information

Company Name: **EnCana Oil & Gas (USA) Inc.**

Gas STAR Contact: **Scott Mason**

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Company Information Updated: **No**

Activities Reported

BMP1: Yes BMP2: No BMP3: Yes

Total Methane Emission Reductions Reported This Year: **10,261,842**

Previous Years' Activities Reported: **Yes**

Period Covered by Report

From: **01/01/2008**

To: **12/31/2008**

☒ I hereby certify the accuracy of the data contained in this report.

Additional Comments

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BMP1: Identify and Replace High-Bleed Pneumatic Devices

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Facility Summary

Number of devices replaced this reporting period: **425 devices**

Percent of system now equipped with low/no-bleed units: **65 %**

C. Cost Summary

Estimated cost per replacement (including equipment and labor): **\$ 900**

D. Methane Emissions Reduction

Method Used: **Other**

Data Source: **Not Applicable**

Methane Emissions Reduction: **75,098 Mcf/year**

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

☒ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration (BMP 1 has a sunset period of 7 years).

☒ Partner will report this activity annually up to allowed sunset date.

F. Total Value of Gas Saved

Value of Gas Saved: **\$ 525,686**

\$ / Mcf used: **\$ 7.00**

G. Planned Future Activities

Number of high-bleed devices to be replaced next year: **500 devices**

Previous Years' Activities

Year	Number of Devices Replaced	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)
2007	1,482	1,333,800	266,805	

* Total cost of replacements (including equipment and labor)

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EnCana reported savings for 1482 valves that were reported in 2007 (EPA can calculate savings using the default calculation). The 425 valves listed above are only for those units converted in 2008. The percent complete, cost of installation and number planned to be replaced next year are mere estimates.

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Artificial lift: gas lift (10 years)

Please describe how your company implemented this PRO:

Inject high pressure gas down the casing to create differential pressure necessary to unload liquids from tubing without having to vent to atmosphere.

C. Level of Implementation

Number of units installed: 123 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 300,921 Mcf/year

Basis for the emissions reduction estimate: Other

EPA calculations available in the EPA GasSTAR guidance documents was used to estimate the gas savings.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

✓ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **2,106,446**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

The methane savings were calculated on all gas lifts that operated in 2008, regardless of when they were implemented in the field.

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Consolidate crude oil production and water storage tanks (10 years)

Please describe how your company implemented this PRO:

Various single well facilities were consolidated into central distribution points. Through this project, EnCana was able to consolidate the equipment required in the field. This reduced the number of tanks, dehyds, pneumatic pumps, etc. used in the field. It also resulted in controlling some sites that were previously uncontrolled.

C. Level of Implementation

Number of units installed: 19 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **151,916 Mcf/year**

Basis for the emissions reduction estimate: **Other**

EnCana estimated annual emissions from all the unconsolidated sites, and next estimated the PTE for the newly consolidated sites. Gas savings were determined by taking the difference of the two and adjusting for the number of days the CDP operated after consolidation in 2008.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 1,063,411**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana will continue to consolidate various wells in the USA division as it deems it economically viable.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Convert gas pneumatic controls to instrument air (10 years)

Please describe how your company implemented this PRO:

Replace gas used to operate pneumatic devices in compressor stations with compressed air.

C. Level of Implementation

Number of units installed: 15 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **93,094 Mcf/year**

Basis for the emissions reduction estimate: **Other**

EPA calculations pulled from the GasSTAR guidance documents was used to calculate the methane savings.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

☒ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

☒ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **651,655**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

The savings reported were for all facilities operating with instrument air regardless of what year the instrument air was installed.

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Orchard

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 14,165 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 99,154**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **We hope to increase inspections to semi-annually.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Hunter Mesa

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

In 2008, the program was just being implemented. Therefore facilities were only measured once (at most). The aim for 2009 is for semi-annual inspections.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 5,585 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 39,095**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **We hope to increase inspections to semi-annually in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

100 Lateral

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: **51 Mcf/year**

Basis for the emissions reduction estimate: **Actual field measurement**

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 358**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **We hope to increase the inspection frequency to semi-annually in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Aristocrat

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 28 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 196**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase the frequency of inspections to semi-annually in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Dragoon

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: **1 times/year**

D. Methane Emissions Reduction

Methane Emissions Reduction: **495 Mcf/year**

Basis for the emissions reduction estimate: **Actual field measurement**

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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**F. Cost Summary**

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas SavedValue of Gas Saved: \$ **3,466**\$ / Mcf used: \$ **7.00****H. Planned Future Activities**

To what extent do you expect to implement this PRO next year?: **EnCana plans to increase this to semi-annual inspections in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Frederick

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 37 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **259**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **We hope to increase inspection frequency to semi-annually**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Ione

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 341 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 2,388**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase inspection frequency to semi-annually next year**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Kallsen

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 230 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **1,607**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase the inspection frequency to semi-annually.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Mitchell

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 507 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **3,546**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase inspection frequency to semi-annually.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Radar

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 341 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **2,388**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase the frequency of inspections to semi-annually in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

State

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 230 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **1,607**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase the inspection frequency to semi-annually in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

Taylor

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M at compressor stations

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect facilities with a FLIR camera on a semi-annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 507 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 3,546**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana hopes to increase the frequency of these inspections to semi-annually in 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

DI&M: survey and repair leaks

Please describe how your company implemented this PRO:

EnCana developed a protocol, which aims to inspect E&P facilities with a FLIR camera on a annual basis. When leaks are discovered, they are measured with a high flow sampler and repaired.

C. Level of Implementation

Frequency of activity or practice: 1 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 626 Mcf/year

Basis for the emissions reduction estimate: _____

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **4,379**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **The program was implemented late in 2008, and therefore only the results for 3 facilities are reflected in these savings. Enclosed are the results for 2009.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions in the number of facilities inspected (M/Y)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Green Completions

Please describe how your company implemented this PRO:

Use flowback separators to capture gas that is normally flowed back to an atmospheric tank.

C. Level of Implementation

Frequency of activity or practice: 387 times/year

D. Methane Emissions Reduction

Methane Emissions Reduction: 7,974,413 Mcf/year

Basis for the emissions reduction estimate: Other

Used equation from EPA GasSTAR guidance documents

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

☒ One-year

☐ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **55,820,888**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Install electric compressors (10 years)

Please describe how your company implemented this PRO:

Changed out natural gas compressor engines with electric compression.

C. Level of Implementation

Number of units installed: 26 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **107,391 Mcf/year**

Basis for the emissions reduction estimate: **Other**

2.11 mscf/hp-yr * hrs/yr * hp/hrs-yr

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

☒ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

☒ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 751,740**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

The savings reflect all electric compression that occurred in the USA division in 2008 (regardless of when the engine was installed).

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Installing plunger lift systems at gas wells (10 years)

Please describe how your company implemented this PRO:

Install plunger lift systems to reduce venting frequency.

C. Level of Implementation

Number of units installed: 1,636 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 1,257,872 Mcf/year

Basis for the emissions reduction estimate: Other

EnCana used the calculation methods provided in the EPA GasSTAR guidance documents.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

✓ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **8,805,106**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **The numbers reported include all of the plunger lift systems that were active in 2008 (regardless of when they were installed)**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Installing VRUs on crude oil storage tanks (10 years)

Please describe how your company implemented this PRO:

Installed VRUs on crude oil storage tanks at various compressor stations.

C. Level of Implementation

Number of units installed: 5 units

D. Methane Emissions Reduction

Methane Emissions Reduction: 20,813 Mcf/year

Basis for the emissions reduction estimate: Actual field measurement

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

✓ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **145,691**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: **EnCana is looking at installing other VRUs throughout the division if they can be deemed economically feasible.**

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

The savings reported are based on total savings for VRUs operating in 2008 regardless of when they were installed.

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Reducing methane emissions from compressor rod packing systems

Please describe how your company implemented this PRO:

Replaced rod packing to reduce gas leaks from the rod packing.

C. Level of Implementation

Number of units installed: 12 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **12,386 Mcf/year**

Basis for the emissions reduction estimate: **Actual field measurement**

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

☒ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

☒ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: **\$ 86,701**

\$ / Mcf used: **\$ 7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Replace gas pneumatic pumps with solar pumps

Please describe how your company implemented this PRO:

Replaced gas pneumatic chemical pumps with solar pumps.

C. Level of Implementation

Other: 843 solar pumps have been installed division wide

D. Methane Emissions Reduction

Methane Emissions Reduction: 79,753 Mcf/year

Basis for the emissions reduction estimate: Other

Used calculations provided in EPA GasSTAR guidance documents.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

✓ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **558,271**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

The methane savings are calculated for pumps operating in 2008 (regardless of what year they were installed).

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BMP3: Partner Reported Opportunities (PROs)

Current Year Activities

A. Facility/location identifier information:

USA Division Wide

B. Description of PRO

Please specify the technology or practice that was implemented:

Replace gas starters with air (10 years)

Please describe how your company implemented this PRO:

Replaced gas starters with air.

C. Level of Implementation

Number of units installed: 94 units

D. Methane Emissions Reduction

Methane Emissions Reduction: **165,045 Mcf/year**

Basis for the emissions reduction estimate: **Other**

Used EPA calculations from the GasSTAR recommended practices.

E. Are these emissions reductions a one-year reduction or a multi-year reduction?

One-year

☒ Multi-year

If Multi-year:

Partner will report this activity once and let EPA automatically calculate future emission reductions based on sunset date duration.

☒ Partner will report this activity annually up to allowed sunset date.

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F. Cost Summary

Estimated cost of implementing the PRO (including equipment and labor): \$ _____

G. Total Value of Gas Saved

Value of Gas Saved: \$ **1,155,316**

\$ / Mcf used: \$ **7.00**

H. Planned Future Activities

To what extent do you expect to implement this PRO next year?: _____

Previous Years' Activities

Year	Frequency of practice/activity or # of Installations	Total Cost * (\$)	Estimated Reductions (Mcf/Yr)	Value of Gas Saved (\$)

* Total cost of practice/activity (including equipment and labor)

Additional Comments

The methane savings are reported for all units with air starts in 2008 - regardless of when they were installed.

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Additional Accomplishments